

Effects of surfactants on complex formation of CuII with 2-dimethylaminomethylphenol

Ryzhkina I., Kudryavtseva L., Boos G., Sal'nikov Y.
Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

The effect of cationic (cetyltrimethylammonium bromide) and nonionic (Triton X-100) surfactants on the complex formation of CuII with a bifunctional ligand, 2-dimethylaminomethylphenol, in water was studied by spectrophotometry, pH-metry, and mathematical modeling of equilibria in solutions. The character of complex formation depends on the nature and concentration of surfactants. The dependence of complex formation constants on the concentration of surfactants is discussed.

Keywords

2-dimethylaminomethylphenol, Complex formation, Copper(II), Surfactants